



Universal Waste Identification and Management

**Fort Wainwright, Alaska
Environmental Officer Course
2011**



Outline

- I. Regulations
- II. Definition of Universal Waste
- III. Storage and Management
- IV. Disposal
- V. Training

UNIVERSAL WASTE **Universal Waste Regulations**



- 40 CFR Part 173
Standards for
Universal Waste
Management
- 18 Alaska
Administrative Code
62.210
 - Adopted 40 CFR Part
273 for universal waste
management
- USAGAK PAM 200-1

Universal Waste Storage Area	
☐ Flammables	☐ Non-Flammables
No Smoking or Flames Within 50 Feet	
Emergency Contacts:	
Fire	911
Medical Assistance	911
Hazardous Materials/Hazardous Waste Manager:	
Primary (Name)	(Phone #)
Alternate (Name)	(Phone #)
Page 280-1, Form 7-1	

Regulatory History

- Federal requirements finalized in 1995 to include:
 - HW Batteries
 - HW Pesticides
 - HW Mercury Containing Equipment
- Amended 6 January 2000 – all HW lamps
- Less stringent requirements for these types of wastes.
- EPA has sought comments to include HW pharmaceuticals, but ruling has not been made.





UNIVERSAL WASTE

~~States May Add to List of~~

UW

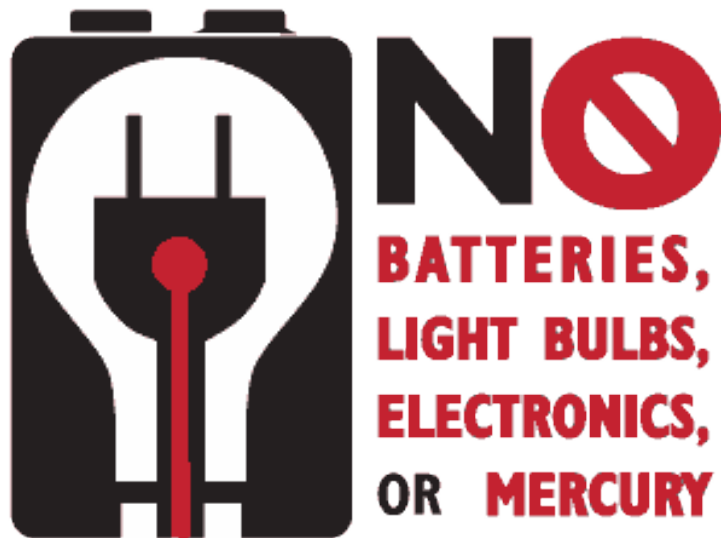


Universal Waste	In these States
Aerosol Cans	California, Colorado
Antifreeze	Louisiana, New Hampshire
Ballasts	Maine, Maryland, Vermont
Barometers	New Hampshire, Rhode Island
Cathode Ray Tubes	Maine, New Hampshire
Electronics	Arkansas, California, Colorado, Connecticut, Louisiana, Michigan, Nebraska, New Jersey
Oil-Based Finishes	New Jersey
Paint & Paint Related Wastes	Texas
HW Pharmaceuticals	Michigan

Universal Waste Definition

- An item that fills the definition of a HW but EPA eased the management of these items because:
 - They are widely generated wastes.
 - Streamlining requirements for these commonly generated wastes would help keep them out of solid waste landfills and combustors.
 - Some have potential for recycling and large quantities are needed to be cost effective for recycling.

KEEP YOUR TRASH TOXIC-FREE



Batteries

- Lithium
- Mercury
- Nickel-Cadmium
- Nickel Metal Hydride
- Silver Oxide





Batteries

- Alkaline batteries are not HW or UW
 - Collect as “Non-regulated Waste – Alkaline Batteries”
- Lead acid batteries are exempt as HW or UW as long as they are exchanged on a one-for-one basis.

Pesticides

- Anything intended for preventing, destroying, repelling, or mitigating any pest, or intended for uses and a plant regulator, defoliant, or dessicant.
 - Stocks of recalled pesticides
 - Stocks of non-compliant pesticides
 - Stocks of unused pesticides that are intended for disposal





UNIVERSAL WASTE **Mercury Containing Equipment**



- Thermostats
- Sphygmomanometers
- Lamps



Lamps

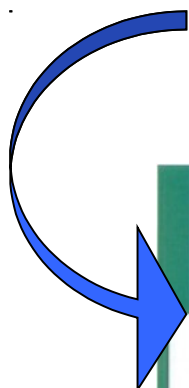
- Contain mercury vapor > 0.2 mg/L (TCLP)
- May contain lead solder > 5.0 mg/L (TCLP)
- Manufacturers now offer low mercury content lamps but still may be > 0.2 mg.L



Marking and Labeling

- “Universal Waste – Waste Type”

- “Universal Waste – Lamps”
- “Universal Waste – Batteries”



UNIVERSAL WASTE

CONTENTS:

ACCUMULATION START DATE:

GENERATOR INFORMATION

ORGANIZATION:
ADDRESS:

POC:
PHONE:

DRUM NUMBER:

LSN/NSN:

PROFILE NUMBER:

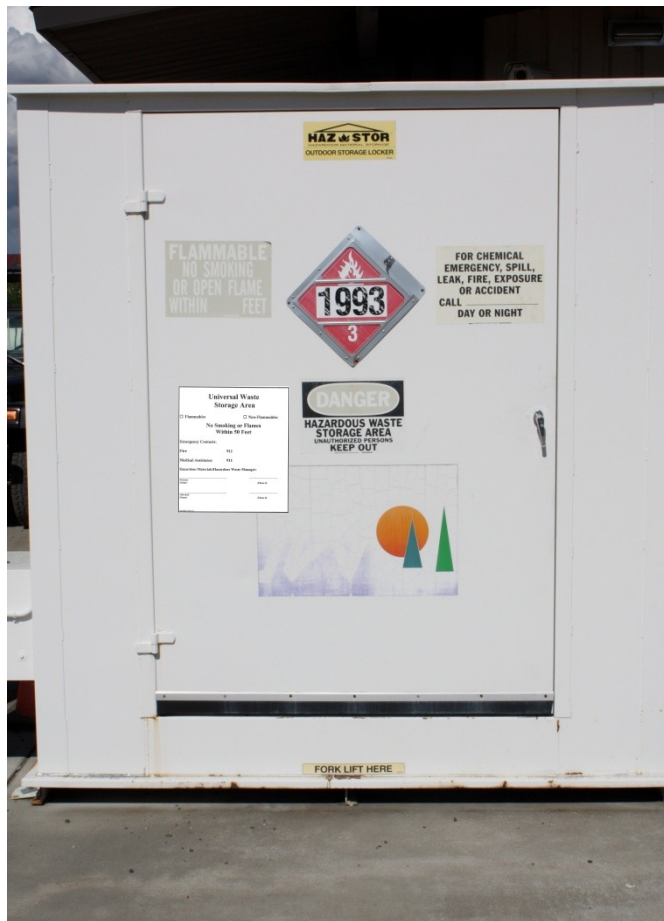
PROTECTING THE ENVIRONMENT IS EVERYONE'S BUSINESS!
For additional information, contact ECC:



Accumulation Time

- Accumulate for no more than 1 year
 - Date the waste was removed from service.
 - Demonstrate accumulation time by:
 - Dating UW container
 - Tagging and dating each waste item, or
 - Keeping an on-site inventory (required anyway)
- Prevent leakage or spills during accumulation
- Containerize leaking/damaged wastes

Storage Requirements



- Options
 - UW Storage Area
 - SAA
 - HWSA
- Weekly inspections
- Container log

Container Management

- Containers **MUST** remain closed unless actively adding or removing waste.





Training Requirements

- UW sites are managed by HM/HW manager and alternate who are trained by ECC.
- ALL generators must be thoroughly familiar with UW handling and emergency procedures.



UNIVERSAL WASTE



END

INSTALLATION MANAGEMENT COMMAND



IMCOM

SOLDIERS • FAMILIES • CIVILIANS

"Sustain, Support and Defend"

UNCLASSIFIED